



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE	Application No.	09/986,381
	Filing Date	November 8, 2001
	First Named Inventor	Steven S. Sommer, et al.
	Group Art Unit	1637
	Examiner Name	Shar S. Hashemi
	Attorney Docket No.	1954-360
Title of the Invention: <i>Measurement of Mutation Load Using the p53 Gene in Human Cells From Paraffin Embedded Tissues</i>		

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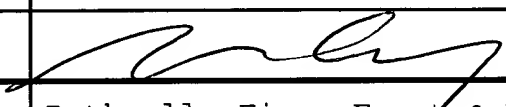
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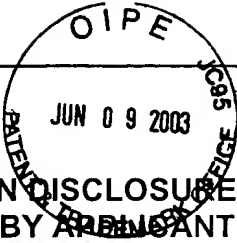
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Pursuant to the provisions of 37 C.F.R. § 1.17, enclosed is a check for \$180.00. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 02-2135. An additional copy of this document is enclosed.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(PTO/SB/08)**

Complete if Known

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
	A	2002/0098166	A1	HAVEMANN et al.	07-25-2002
	B	6,071,726	A	DIAMANDIS et al.	06-06-2000
	C	6,342,217	B1	LINK, JR. et al.	01-29-2002

FOREIGN PATENT DOCUMENTS

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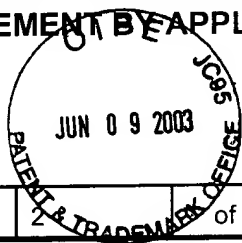
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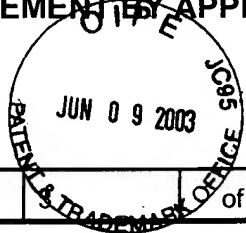
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	D	JANE COLE, et al., "International Commission for Protection Against Environmental Mutagens and Carcinogens"; Mutation Research, 304 (1994) pp33-105, 1994.
	E	ALAN S. JONASON, et al., "Frequent clones of p53-mutated keratinocytes in normal human skin"; Proc. Natl. Acad. Sci. USA, Vol. 93, pp14025-14029, November 1996.
	F	S. PERWEZ HUSSAIN, et al., "Increased p53 mutation load in nontumorous human liver of Wilson disease and hemochromatosis: Oxyradical overload diseases"; PNAS, pp12770-12775, Vol. 97, No. 23, November 7, 2000.
	G	S. PERWEZ HUSSAIN, et al., "Mutability of p53 Hotspot Codons to Benzo(a)pyrene Diol Epoxide (BPDE) and the Frequency of p53 Mutations in Nontumorous Human Lung"; Cancer Research 61, pp6350-6355, September 1, 2001.
	H	FERNANDO AGUILAR, et al., "Aflatoxin B ₁ induces the transversion of G→T in codon 249 of the p53 tumor suppressor gene in human hepatocytes"; Proc. Natl. Acad. Sci. USA, Vol. 90, pp.8586-8590, September 1993.
	I	LOREL M. COLGIN, et al., "The unexpected landscape of in vivo somatic mutation in a human epithelial cell lineage"; PNAS, February 5, 2002, Vol. 99, No. 3, pp14437-14442.
	J	LESLIE RECIO, et al., "DNA sequence analysis of in vivo hprt mutation in human T lymphocytes"; Mutagenesis, Vol. 5, No. 5, pp505-510, 1990.
	K	NEAL OF CARIELLO, et al., "Analysis of Mutations Occurring at the Human hprt Locus" J. Mol. Biol. (1993) 231, pp41-57.
	L	VERNON E. WALKER, et al., "Frequency and Spectrum of Ethylnitrosourea-induced Mutation at the hprt and lacI Loci in Splenic Lymphocytes of Exposed lacI Transgenic Mice"; CANCER RESEARCH 56, pp4654-4661, October 15, 1996.
	M	THOMAS R. SKOPEK, et al., "Relative Sensitivity of the Endogenous hprt Gene and lacI Transgene in ENU-Treated Big Blue™ B6C3F1 Mice"; Environmental and Molecular Mutagenesis 26:9-15 (1995).
	N	THOMAS R. SKOPEK, et al., "Mutagenic Response of the Endogenous hprt Gene and lacI Transgene in Benzo[a]pyrene-Treated Big Blue™ B6C3F1 Mice"; Environmental and Molecular Mutagenesis 28:376-384 (1996).
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	O	OLGA O. MOTORNA, et al., "Analysis of lacI mutations in Big Blue® transgenic mice subjected to parasite-induced inflammation"; Mutation Research, 484 (2001), pp69-76.
	P	SUSAN E. ANDREW, et al., "A novel lacI transgenic mutation-detection system and its application to establish baseline mutation frequencies in the scid mouse"; Mutation Research, 357 (1996), pp57-66.
	Q	TETSUYA ONO, et al., "Age-associated increase of spontaneous mutant frequency and molecular nature of mutation in newborn and old lacZ-transgenic mouse"; Mutation Research, 447 (2000), pp165-177.
	R	GREGORY R. STUART, et al., "Mutation Frequency and Specificity With Age in Liver, Bladder and Brain of lacI Transgenic Mice"; Genetics Society of America, 154:pp1291-1300, (March 2000).
	S	P.D. LEWIS, et al., "Spontaneous mutation spectra in supF: comparative analysis of mammalian cell line base substitution spectra"; Mutagenesis, Vol. 16, No. 6, pp503-515, 2001.
	T	TAKEHIKO NOHMI, et al., "Recent advances in the protocols of transgenic mouse mutation assays"; Mutation Research, 455 (2000), pp191-215.
	U	JOHN A. HEDDLE, et al., "In Vivo Transgenic Mutation Assays"; Environmental and Molecular Mutagenesis, 35:253-259 (2000).
	V	SUSAN E ANDREW, et al., "Base transitions dominate the mutational spectrum of a transgenic reporter gene in MSH2 deficient mice"; Oncogene (1997) 15, pp123-129.
	W	SUSAN E. ANDREW, et al., "Mutagenesis in PMS2- and MSH2-deficient mice indicates differential protection from transversions and frame shifts"; Carcinogenesis, Vol. 21, No. 7, pp1291-1295, 2000.
	X	KENTARO HORIKAWA, et al., "Frequent detection of T cells with mutations of the hypoxanthine-guanine phosphoribosyl transferase gene in patients with paroxysmal nocturnal hemoglobinuria"; Blood 1 January 2002, Vol. 99, No. 1, pp24-29.
	Y	CLIVE R. TAYLOR, M.D., Ph.D., et al., "Antigen Retrieval for Immunohistochemistry Status and Need for Greater Standardization"; Applied Immunohistochemistry, 4(3):144-166, 1996.

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